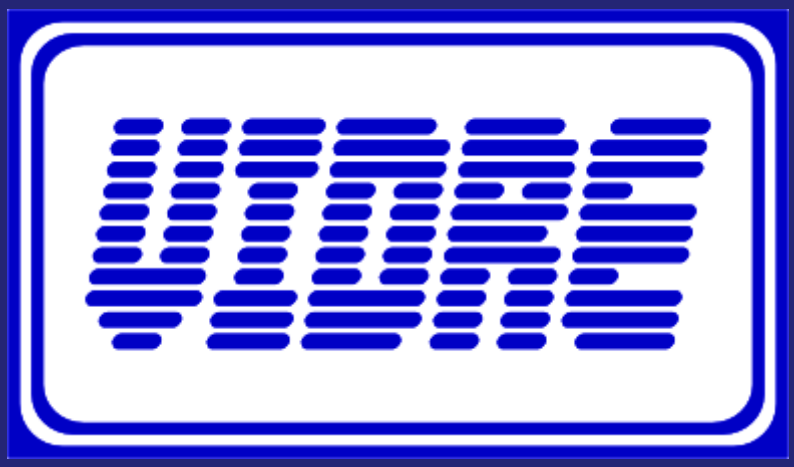
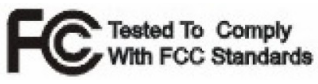
Operation Manual



VT24HDview
HighDefinition Monitors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1 General Rules

1.1 Safety Instructions

1.1.1 General rules

Only use the device as directed in a dry atmosphere. Treat the VIDRE LCD Monitor with the same care as other studio devices. Please follow the advice in the following operators manual.

Damages in transit If the device shows obvious damages from transit the shipper in question must be notified and the dealer must be informed.

1.1.2 Repairs

The VIDRE LCD Monitors does not require any extra maintenance. There are no user serviceable parts at the device. Repairs should be sent to an authorized service partner.

1.1.3 Servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltages or other risks. If any of the above mentioned misuse or other accident such as dropping or mishandling occurs, contact qualified service personnel for servicing.

1.1.4 Power Safety

The AC plug isolates this equipment from the AC supply.

The power supply cord serves as a power disconnect device for pluggable equipment. The socket outlet should be installed near the equipment and be easily accessible.

This product should be operated from the type of power indicated on the marked label. If you are not sure of the type of power available, consult your dealer or local power company.

1.2 Trademarks

VIDRE and the VIDRE logo are trademarks of PTV Professional TeleVision GmbH. GeFei, MIO and Gra-Vue logos are trademarks of Gefei Tech. Co. Ltd.All other trademarks are the property of their respective holders.

1.2.1 Copyright

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Information in this publication replaces all previously published information. PTV Professional TeleVision GmbH assumes no responsibility for errors or omissions.

Neither is any liability assumed for damages resulting from the use of the information contained herein. Whenever it is likely that safe operation is impaired, the instrument must be made inoperative and secured against unintended operation. The appropriate service authority must then be informed.

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1.2.2 Notice

All information in this manual is subject to change without notice. The information in this manual is published for informational use only .

1.3 EMC

The EMC regulations are observed only under the following condition:

- use high quality shielded cables at data inputs and outputs.

1.3.1 FCC Emission Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by PTV Professional TeleVision GmbH can effect emission compliance and could void the user's authority to operate this equipment.

1.3.2 CE Declaration

We, PTV Professional TeleVision GmbH, declare under our sole responsibility that the VIDRE LCD Monitors meets the intent of the following directives, standards and specifications:

- 89/336/EEC Electromagnetic Compatibility
- EN 50081-1 Emissions, EN 55022, EN 55103-1
- EN 50082-1 Immunity, EN 55024,EN 55103-2

1.4 Care and Cleaning

Cleaning. Always unplug your monitor from the wall outlet before cleaning. Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any liquid, aerosol or glass cleaners.

Slots and openings on the back or top of the cabinet are for ventilation. They must not be blocked or covered. Your monitor should never be placed near or over a radiator or heat source, or in a built-in installation unless proper ventilation is provided.

Never push objects or spill liquid of any kind into this product.

1.5 Contacting Support

For further information please contact your local dealer or contact PTV Professional TeleVision GmbH for sales or technical support. Use any of the following methods:

PTV Professional TeleVision GmbH
Kirchweg 62 B
D-24558 Henstedt-Ulzburg

tel +49 - 4193 - 997 80
fax +49 - 4193 - 997 820

sales email info @ vidre.de
support email support @ vidre.de

web www.vidre.de

When calling for support, have all information on the product (serial number etc.) at hand

prior to calling.

1.6 Limited Warranty

PTV Professional TeleVision GmbH warrants that this product will be free from defects in materials and workmanship for a period of twenty-four month from the date of purchase. If a product proves to be defective during this warranty period, PTV Professional TeleVision GmbH, at its option, will either repair the defective product without charge for parts and labor, or will provide a replacement in exchange for the defective product.

In order to obtain service under this warranty, you the Customer, must notify PTV Professional TeleVision GmbH of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service. The Customer shall be responsible for packaging and shipping the defective product to a designated service center nominated by PTV Professional TeleVision GmbH, with shipping charges prepaid. PTV Professional TeleVision GmbH shall pay for the return of the product to the Customer if the shipment is to a location within the country in which the PTV Professional TeleVision GmbH service center is located. Customer shall be responsible for paying all shipping charges, insurance, duties, taxes, and any other charges for products returned to any other locations.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. PTV Professional TeleVision GmbH shall not be obligated to furnish service under this warranty

a) to repair damage resulting from attempts by personnel other than PTV Professional TeleVision GmbH representatives to install, repair or service the product,

b) to repair damage resulting from improper use or connection to incompatible equipment,

c) to repair any damage or malfunction caused by the use of non-PTV Professional TeleVision GmbH parts or supplies, or

d) to service a product that has been modified or integrated with other products when the effect of such a modification or integration increases the time or difficulty of servicing the product.

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2 General Description

2.1 Introduction

2.1.1 High-Resolution LCD Monitors for multiple Applications

The VIDRE V-series Monitors were designed as compact and universal monitors at a low budget price. They are usable to display images in studios, control rooms or OB-vans, but for presentation or signage applications at airports, museums or exhibitions, industrial control systems and surveillance monitoring either.

Equipped with his high resolution displays VIDRE monitors stands for a crisp and detailed image reproduction at a high and homogen brightness all over the screen.

VIDRE monitors offering a state-of-the-art digital input, are fully equipped and supporting most common signal standards. They are a reliable tool to proof image quality in studios, digital signage or IT systems.

For video applications models equipped with SD/HD-SDI inputs are available.

VIDRE LCD Monotors contains TFT Liquid Crystal Displays(TFT LCD) with multiple CCFL Backlight units. This displays supports 1920 x 1080 HDTV format and can display true 16.7M colors (8-bit/color).

2.1.2 Features

Main features for the VIDRE LCD monitors are

- High brightness
- High contrast ratio
- Fast response time (Gray to Gray 6.5 ms)
- High color saturation
- Max resolution 1920 x 1080 (HDTV format)
- Ultra wide viewing angle:176(H)/ 176(V) Super MVA technology
- Support PIP/PAP function

- Configurable ambient light sensor
- VGA/DVI input support Video sync - 1080p
- OSD menu controls by Remote controller, OSD button and RS232C controller

The Display operation Mode is transmissive at normally black. The surface treatment has an Anti-Glare coating (Haze 25%) and Hard coating (3H)

2.1.3 Application

Main applications for the VIDRE LCD monitors are

- Video Production Applications
- Public Display Application
- Home Theater Application
- MFM Application
- MultiViewer Application
- Signal Control Monitor

2.2 Model VT24HDView

2.2.1 Product Description

Based on VIDRE V-sereies, VT24HDview is a high-quality monitor equipped with an 3G/HD/SD-SDI input and signal processor to display digital video and audio signals.

VT24HDview can be controlled by Ethernet network via IE browser, which is convenient to configure the display parameters. The device provides audio and video detection, such as signal loss, signal freeze, audio silence and so on.

The text of UMD program can be edited freely. And it supports SNMP, which is easy to manage the device. Although the signal processor adopts DVI output interface, the HDMI signal can be obtained by using a DVI to HDMI adapter or cable. In HDMI mode, the HD/SD audio are embedded into HDMI signal.

2.2.2 Features

Basic features of the SDI signal processor are:

- Automatic input detection of 525i60, 625i50, 720p, 1080i and 1080p format of SDI signal
- Various output resolutions up to 1920x1080px60
- In HDMI mode, the HD/SD audio are embedded into HDMI signal
- Audio and video monitoring and alarm, such as signal loss, signal freeze, audio silence
- Display program UMD and 8 channels audio, and adjust transparency of them freely
- Various waveforms, such as illumination waveform, PbPr waveform, audio waveform, etc
- Build-in web server to control the device with user-friendly interface
- Adjust luminance, saturation, contrast and de-noise freely
- Provide on-screen display: input formats, AFD and safe marker
- Supports SNMP

2.2.3 Network Port

The signal processor is equipped with a RJ45 interface with 10/100/1000M auto-detection.

The default IP address is **192.168.1.76**.

The built-in web server operates as remote control interface.

2.2.4 Restart Button

To restart the SDI signal processor use a push pin to press the button named RESTART. The function of the button equals to turn off. Probably around 5 seconds the unit restarts using the last settings.

2.2.5 Default Button

To set the SDI signal processor back to default modes use a push pin to press the button named DEFAULT/RESOLUTION for several seconds until the DVI output disappears.

The parameters at the internal web page will be restored to default settings, including the IP address and user password.

The default IP address is 192.168.1.76, and the default password is 000000 (six zeros).

2.2.6 Resolution Button

To select different display resolution of the signal processor use a push pin to press the button named DEFAULT/RESOLUTION shortly.

The output resolution toggles between mode 1280p60, 1080p60 and AUTO.

3 Supported Formats

3.1 Graphic Formats

3.1.1 Analog Graphic Formats

The VIDRE monitors supports following formats at their analog graphic inputs.

The table below list the accepted formats.

Format	Resolution	Frequencies	Format	Resolution	Frequencies
VGA	640 x 480	56 - 75 Hz	**WVGA**	800 x 480	56 - 75 Hz
SVGA	800 x 600	56 - 75 Hz	**WSVGA**	1024 x 600	56 - 75 Hz
XGA	1024 x 768	56 - 75 Hz	**WXGA**	1360 x 768	56 - 75 Hz
SXGA	1280 x 1024	56 - 75 Hz	**SXGA**	1152 x 864	56 - 75 Hz
UXGA	1600 x 1200	56 - 75 Hz	**WUXGA**	1920 x 1200	56 - 75 Hz
MAC I	640 x 480	56 - 75 Hz	**MAC II**	832 x 624	56 - 75 Hz
MAC III	1024 x 768	56 - 75 Hz			

3.1.2 Digital Graphic Formats

The VIDRE monitors supports following formats at their digital graphic inputs.

The table below list the accepted formats.

Format	Resolution	Frequencies	Format	Resolution	Frequencies
VGA	640 x 480	56 - 75 Hz	**WVGA**	800 x 480	56 - 75 Hz
SVGA	800 x 600	56 - 75 Hz	**WSVGA**	1024 x 600	56 - 75 Hz
XGA	1024 x 768	56 - 75 Hz	**WXGA**	1280 x 768	56 - 75 Hz
SXGA	1280 x 1024	56 - 75 Hz	**WSXGA**	1600 x 1050	56 - 75 Hz
UXGA	1600 x 1200	56 - 75 Hz	**WUXGA**	1920 x 1200	56 - 75 Hz

3.1.3 Other Graphic Formats

Some VIDRE monitors supports following elder graphic formats at their analog graphic inputs.

The table below list the accepted formats.

Format	Resolution	Frequencies	Format	Resolution	Frequencies
DOS	640 x 350	56 - 75 Hz	**DOS**	720 x 400	56 - 75 Hz
MAC	832 x 624	56 - 75 Hz	**MAC**	1024 x 768	56 - 75 Hz
VESA	1152 x 864	56 - 75 Hz	**MAC**	1152 x 874	56 - 75 Hz
SUN	1152 x 900	56 - 75 Hz	**SUN**	1152 x 900	76 Hz
VESA	1280 x 960	56 - 75 Hz	**SPARC2**	1280 x 1024	76 Hz

3.1.4 Supported Timings

Image disruption may occur as a result of signal frequency differences from graphic cards which do not correspond with the usual standard. This is not, however, an error. You may improve this situation by altering an automatic setting or by manually changing the phase setting and the pixel frequency from the “Display” menu.

To extend the service life of the product, we recommend that you use your computer's power management function.

3.2 Video Formats

3.2.1 Analog Video Formats

The VIDRE monitors supports following formats at their analog video inputs.

The table below list the accepted formats.

Format	Resolution	Frequencies	Format	Resolution	Frequencies
PAL	768 x 576	50 Hz	**NTSC**	648 x 480	59,97 / 60 Hz

3.2.2 Digital Video Formats SDI

The VIDRE monitors supports following formats at their digital video inputs.

The table below list the accepted formats.

Format	Resolution	Frequencies	Format	Resolution	Frequencies
SD-SDI	720 x 576	50 Hz	**SD-SDI**	720 x 480	59,97 / 60 Hz
1080i	1920 x 1080	50 / 59.94 / 60 Hz	**1080p**	1920 x 1080	25 / 29.97 / 30 Hz
720p	1280 x 720	50 / 59.94 / 60 Hz	**1080p**	1920 x 1080	50 / 59.94 / 60 Hz

All digital video signals will be transformed into a selectable format, e.g as 1920x1200 @ 50 Hz signal, no matter what type of input signal is detected.

Video signals in SD format will be processed as an 4:3 aspect ratio information.

3.2.3 Digital Video Formats HDMI

The VIDRE monitors supports following formats at their digital video inputs.

The table below list the accepted formats.

Format	Resolution	Frequencies	Format	Resolution	Frequencies
576i	720 x 576	50 Hz	**480i**	720 x 480	59,97 / 60 Hz
576p	720 x 576	50 Hz	**480p**	720 x 480	59,97 Hz
1080i	1920 x 1080	50 / 59.94 / 60 Hz	**1080p**	1920 x 1080	25 / 29.97 / 30 Hz
720p	1280 x 720	59.94 / 60 Hz			

4 Dimensions and Mounting

4.1 Desktop Mounting

All VIDRE VT series LCD monitors have threads at the rear for mounting standard VESA attachements or desktop stands.

The thread distance is 100 mm to adapt VESA 100 items.

4.1.1 Desktop Stand

The VIDRE VT23XD monitors comes with a desktop stand.

Unpack the package and place the monitor stand firmly.

Attach the monitor to the stand until it locks. Align the grooves on back of the monitor against the tabs on the monitor stand, and then push the monitor forward until you hear a clicking sound.

Fully extend and tilt the monitor to rotate it.

The monitor is now locked at the lowest position, and you have to press Lock down / release button on the bottom rear of stand to move the monitor up to the maximum extended position.

Then tilt the monitor.

To avoid the edge of the LCD display hitting the monitor base surface while it is being rotated, do tilt and extend the monitor to the highest position before you start to rotate the display.

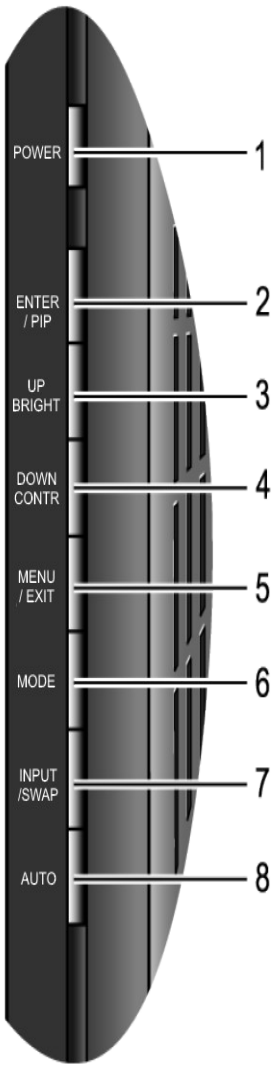
4.1.2 To adjust the monitor angle

For comfortable viewing of images on the screen, you may not only tilt the monitor upward to 20 degrees and downward to -5 degrees, but also swivel the monitor to 45 degrees on either left or right direction.

5 Operation Menu

5.1 Operation Keys

The VIDRE OSD menu has a clear and simple structure for selecting inputs and or functions. Several different OSD screens will appears. The operation can be done by the menu keys.

Keys	Function	Description
	POWER	Turn the power on or off.
	ENTER / PIP	Enter sub menus and select items. The key is also the hot key for activating the PIP (Picture-in-Picture) function and selecting a video input source for the PIP window.
	UP / BRIGHTNESS	For Up/Increase adjustment. The key is also the hot key for Brightness.
	DOWN / CONTRAST	For Down/Decrease adjustment. The key is also the hot key for Contrast.
	MENU / EXIT	Activate OSD main menu and return to the previous menu or exit OSD.
	MODE	Switch between different modes, including Standard, Movie, Dynamics, Photo and sRGB.
	INPUT / SWAP	Manually switch between different video signals that may be connected to your monitor for the main window, or swap the input signals between the main window and the PIP window.
	AUTO	Adjust vertical position, phase, horizontal position and pixel clock automatically.

The hot-keys #2 / 3 / 4 will display a graduated scale for adjusting the value of that setting, and will only operate while the OSD menu is not currently displaying. Hot-key displays will disappear after a few seconds of no key activity.

5.2 Monitor OSD Menu Items

5.2.1 Information OSD

The information OSD displays the current setup.

Use the keys [▲][▼] to select a major item, press the [ENTER] key to enter the Menu item or [EXIT] to quit.

5.2.2 Menu Structure

The OSD menu has a easy to operate structure.

Menu	Function	Item	Selection
DISPLAY	**Auto Adjustment**		
	H-Position		
	V-Position		
	Pixel Clock		
	Phase		
PICTURE	**Brightness**		
	Contrast		
	Sharpness		
	Color	Normal	
		Bluish	
		Redish	
		User Mode	Red / Green / Blue
		Reset Color	Yes / No
	Dynamic Contrast	On / Off	
	Hue		
	Saturation		
PICTURE ADVANCED	**Picture Mode**	Standard / Movie / Dynamics / Photo / sRGB	
	Senseye Demo	On / Off	
	Overscan	On / Off	
PIP	**Input**	D-Sub / Composite / S-Video / DVI (HDSDI) / HDMI / Component / Off	
	Size	Small / Medium / Large	
	H-Position		
	V-Position		

Menu	Function	Item	Selection
	Contrast		
	Sharpness		
SYSTEM	**Input**	D-Sub / DVI (HDSDI)/ HDMI / Component / Composite / S-Video	
	Display Mode	Full / Aspect / 1:1	
	OSD Setting	Language	English / French / German / Italian / Spanish / Polish / Czech / Hungarian / Serbo-Croatian / Romanian / Dutch / Russian / Swedish / Portuguese
		H-Position	
		V-Position	
		Display Time	5 / 10 / 15 / 20 / 25 / 30 sec
		OSD Lock	On / Off
	DDC/CI	On / Off	
	Information		
	Reset All	Yes / No	

Use the keys [▲][▼] to select a major item, press the [ENTER] key to enter the Menu item or [EXIT] to quit.

5.2.3 Display Setting

The display setting OSD displays the setup features for the monitor.

See function table below.

Item	Function	Operation	Range
Auto Adjustment	Optimizes and adjusts the screen settings automatically for you. The AUTO key is a 'hot-key' for this function. When you connect a digital video output using a digital (DVI) cable to your monitor, the AUTO key and the Auto Adjustment function will be disabled.	Press the ENTER key to select this option and make adjustments.	
H-Position	Adjusts the horizontal position of the screen image	Use the keys [▲][▼] to adjust the value	0 to 100
V-Position	Adjusts the vertical position of the screen image	Use the keys [▲][▼] to adjust the value	0 to 100
Pixel Clock	Adjusts the pixel clock frequency timing to synchronize with the analog input video signal. Not applicable to a digital input signal.	Use the keys [▲][▼] to adjust the value	0 to 100

Item	Function	Operation	Range
Phase	Adjusts the pixel clock phase timing to synchronize with the analog input video signal. Not applicable to a digital input signal.	Use the keys [▲][▼] to adjust the value	0 to 63

Use the keys [ENTER] to get into the setting, [▲][▼] to select a item, [▲][▼] to select a source or adjust a value, [ENTER] to set the value, [EXIT] to quit.

5.2.4 Picture Setting

The Picture setting OSD displays the setup features for the monitor.

See function table below.

Item	Function	Operation	Range
Brightness	Adjusts the balance between light and dark shades.	Press the ENTER key to select this option and make adjustments.	
Contrast	Adjusts the degree of difference between darkness and lightness,	Use the keys [▲][▼] to adjust the value	0 to 100
Sharpness	Adjusts the clarity and visibility of the edges of the subjects in the image	Use the keys [▲][▼] to adjust the value	0 to 5
Color		Use the [ENTER] key to select this feature	
Normal	Allows video and still photographs to be viewed with natural coloring. This is the factory default color.	Use the keys [▲][▼] to select this feature	
Bluish	Applies a cool tint to the image and is factory pre-set to the PC industry standard white color.	Use the keys [▲][▼] to select this feature	
Redish	Applies a warm tint to the image and is factory pre-set to the news print standard white color.	Use the keys [▲][▼] to select this feature	
User Mode	Tailors the image color tint. The blend of the Red, Green and Blue primary colors can be altered to change the color tint of the image. The default start setting is 50. Decreasing one or more of the colors will reduce their respective influence on the color tint of the image. e.g. if you reduce the Blue level the image will gradually take on a yellowish tint. If you reduce Green, the image will become a magenta tint.	Use the keys [▲][▼] to select this feature and select by [ENTER]. Use the keys [▲][▼] to adjust the value	0 to 100
Reset Color	Resets the User Mode custom color settings to the factory defaults.	Use the keys [▲][▼] to select this feature	Yes / No
Dynamic Contrast	The function will increase the level of contrast to provide sharper and more detailed image quality. !!! Activating DynamicContrast will disable Brightness and Contrast controls !!!	Use the keys [▲][▼] to adjust the value and select by [ENTER].	On / Off

Item	Function	Operation	Range
Hue	Adjusts the level of the primary color or mixtures of main colors which present in the displayed image. The function is not available for use when the input source is VGA or DVI.	Use the keys [▲][▼] to adjust the value	0 to 100
Saturation	Adjusts the purity and intensity of colors in the displayed image. The function is not available for use when the input source is VGA or DVI.	Use the keys [▲][▼] to adjust the value	0 to 100

Use the keys [ENTER] to get into the setting, [▲][▼] to select a item, [▲][▼] to select a source or adjust a value, [ENTER] to set the value, [EXIT] to quit.

5.2.5 Picture Advanced Setting

The picture advanced setting OSD displays the setup features for the monitor.

See function table below.

Item	Function	Operation	Range
Picture Mode	Selects a picture mode that best suits the type of images shown on the screen. Standard - for basic PC application Movie - for viewing videos Dynamics - for viewing landscape-specific videos and playing games Photo - for viewing still images sRGB - for better color matching representation with the peripheral devices, such as printers, DSCs, etc.	Press the ENTER key to select this option and make change the settings by using the keys [▲] [▼].	Standard Movie Dynamics Photo sRGB
Senseye Demo	Displays the preview of screen images under the selected mode from Picture Mode. The screen will be divided into two windows; the left window demonstrates images of Standard mode, while the right window presents the images under the specified mode.	Use the keys [▲][▼] to adjust the value	On / Off
Overscan	Slightly enlarges the input image. Use this feature to hide annoying edge noise if present around your image. !!! The function is not available for use when the input source is D-Sub or DVI-D. When the input source is component, composite, or S-video, the function is ON by default; however, when the input source is HDMI, the default setting is OFF !!!	Use the keys [▲][▼] to adjust the value	On / Off

Use the keys [ENTER] to get into the setting, [▲][▼] to select a item, [▲][▼] to select a source or adjust a value, [ENTER] to set the value, [EXIT] to quit.

5.2.6 PIP Setting

The PIP (picture in picture) setting OSD displays the setup features for the monitor.

See function table below.

Item	Function	Operation	Range
Input	Selects the video input for PIP viewing window. Use this to change the input to that appropriate to your video cable connection type.	Press the ENTER key to select this option and make adjustments.	Composite S-video D-sub DVI HDMI (HDSDI) Component OFF
Size	Adjusts the size of the PIP window		Small Medium Large
H-Position	Adjusts the horizontal position of the PIP window	Use the keys [▲][▼] to adjust the value	0 to 25
V-Position	Adjusts the vertical position of the PIP window	Use the keys [▲][▼] to adjust the value	0 to 25
Contrast	Adjusts the degree of difference between darkness and lightness of the images in the PIP window.	Use the keys [▲][▼] to adjust the value	0 to 100
Sharpness	Adjusts the clarity and visibility of the edges of the subjects in the images displayed in the PIP window.	Use the keys [▲][▼] to adjust the value	0 to 5

Use the keys [ENTER] to get into the setting, [▲][▼] to select a item, [▲][▼] to select a source or adjust a value, [ENTER] to set the value, [EXIT] to quit.

5.2.7 System Setting

The system setting OSD displays the setup features for the PIP function.

See function table below.

Item	Function	Operation	Range
Input	Selects the video input for the main window. Use this to change the input to that appropriate to your video cable connection type.	Press the ENTER key to select this option and make adjustments.	Composite S-video D-sub DVI (HDSDI) HDMI Component

Item	Function	Operation	Range
Display Mode	This feature is provided to allow aspect ratio's other than 16:10 to be displayed without geometric distortion. Full - Scales the input image to fill the screen. Ideal for 16:10 aspect images. Aspect - The input image is displayed without geometric distortion filling as much of the display as possible. 16:9 images will fill the screen horizontally while 4:3 images will fill the screen vertically. 1:1- Displays the input image in its native resolution without scaling. !!! If Overscan is set to ON, then the scaling is 1:1.05 !!!	Use the keys [▲][▼] to change the settings	Full Aspect 1:1
OSD Settings		Use the [ENTER] key to select this feature	
Language	Sets the OSD menu language	Use the keys [▲][▼] to change the settings	English French German Italian Spanish Polish Czech Hungarian Serbo-Croatian Romanian Dutch Russian Swedish Portuguese
H-Position	Adjusts the horizontal position of the OSD window	Use the keys [▲][▼] to adjust the value	0 to 100
V-Position	Adjusts the vertical position of the OSD window	Use the keys [▲][▼] to adjust the value	0 to 100
Display Time	Adjusts the display time of the OSD menu.	Use the keys [▲][▼] to adjust the value	5 s 10 s 15 s 20 s 25 s 30 s
OSD Lock	Prevents all the monitor settings from being accidentally changed. When this function is activated, the OSD controls and hotkey operations will be disabled	Use the keys [▲][▼] to change the settings	On Off
DDC / CI	Allows the monitor settings to be set through the software on the PC.	Use the keys [▲][▼] to change the settings	On Off
Information	Displays the current monitor property settings	Press the [ENTER] key to select this option	
Reset All	Resets all mode, color and geometry settings to the factory default values.	Use the keys [▲][▼] to change the settings	Yes No

Use the keys [ENTER] to get into the setting, [▲][▼] to select a item, [▲][▼] to select a source or adjust a value, [ENTER] to set the value, [EXIT] to quit.

6 Monitor Adjustments

6.1 Hot Keys

The monitor keys perform as hot keys to provide direct access to particular functions whenever the menu isn't currently displaying on-screen.

6.1.1 Hot Key Brightness

The Brightness hot key OSD allows direct access to change the Brightness of the monitor.

Press the [▲] key to display the Brightness indicator. Further press the [▲] key to increase or the [▼] key to decrease the screen brightness, and press the MENU key to exit.

Use the keys [▲][▼] to get into the setting, [▲][▼] to change the value and finally the key [MENU] to exit the setting.

6.1.2 Hot Key Contrast

The Contrast hot key OSD allows direct access to change the Contrast of the monitor.

Press the [▲] key to display the Contrast indicator. Further press the [▲] key to increase or the [▼] key to decrease the screen contrast, and press the MENU key to exit.

Use the keys [▲][▼] to get into the setting, [▲][▼] to change the value and finally the key [MENU] to exit the setting.

6.1.3 Hot Key PIP

The Contrast hot key OSD allows direct access to change the Contrast of the monitor.

Press the Enter key to activate the picture in picture display and select the picture in picture display source.
Pressing this key continually allows you to switch between the video input sources or turn the PIP function off. When the messages of the desired input source displays, release the key to set the PIP input source. The message will last around 3 seconds.
The setting will take effect immediately.

Use the keys [▲][▼] to get into the setting, [▲][▼] to change the value and finally the key [MENU] to exit the setting.

This command can bring up a window from a second image source. Thus you can watch images from 1 computer graphic/PC video source (D-sub, DVI, HDMI* (HDSDI), or Component) and 1 video source (Composite or S-video). The PIP function will not allow for 2 computer graphic/PC video sources or 2 video sources to perform PIP.

*HDMI, short for High Definition Multimedia Interface, is the first industry-supported, uncompressed, all-digital audio/video interface between audio/video sources and audio and/or video monitors. Being different from other connectors, an HDMI connector can carry both video and audio signals via the same cable and transfer uncompressed digital audio and video for the highest image quality. It supports digital televisions (DTV), set-top boxes, DVD players, and DVD recorders, etc. The HDMI connector on your VT series monitor supports video source only.

6.2 How to adjust the screen resolution

Due to the nature of liquid crystal display (LCD) technology, the screen resolution is always fixed.

For the best display performance, please set the display resolution to 1920 x 1200 pixels with an aspect ratio of 16:10. This is called “Native Resolution” or maximal resolution – that is, the clearest picture. Lower resolutions are displayed on a full screen through an interpolation

circuit. Image blurring across pixel boundaries can occur with the interpolated resolution depending upon the image type and its initial resolution.

To take full advantage of LCD technology you should select the native resolution setting of 1920 x 1200 on your PC screen resolution setting as described below. Be aware that not all PC video cards provide this resolution value. If yours doesn't, check with the video card manufacturer's website for an updated driver for your particular model PC video card which supports this resolution. Software video drivers are often updated and available for new hardware video resolutions. If necessary, you may need to replace and update the PC video card hardware to be able to support the native resolution of the monitor.

1. Open Display Properties and select the Settings tab.

You can open Display Properties by right-clicking on the Windows desktop and selecting Properties from the pop-up menu.

2. Use the slider in the 'Screen area' section to adjust the screen resolution.

Select the recommended resolution of 1920 x 1200 then click Apply.

If you select some other resolution, be aware that this other resolution is interpolated and may not accurately display the screen image as well as it could do at the native resolution setting.

3. Click OK then Yes.

4. Close the Display Properties window.

If your input source does not provide an image with a 16:10 aspect ratio, the displayed image may appear stretched or distorted. To maintain the original aspect ratio, image scaling options can be found in the "Display Mode" adjustment. The image size is altered by the "Overscan" setting.

7 Remote Control Software

7.1 Attention before use

The SDI processor has a built-in Web server, so user could configure it by Internet Explorer easily when connecting it through cable. The default IP address: 192.168.1.76. The default user name: admin The default password: 000000 (six zeros)

7.1.1 Introduction of Web Control

You do not need to install the client software. Open any type of internet browser, e.g. Firefox or IE, and input the IP address in the location bar to open the user interface. Default IP address is "http://192.168.1.76". Input user name (admin) and initial password (000000). Click "login", you will enter into the actual operation remote control.

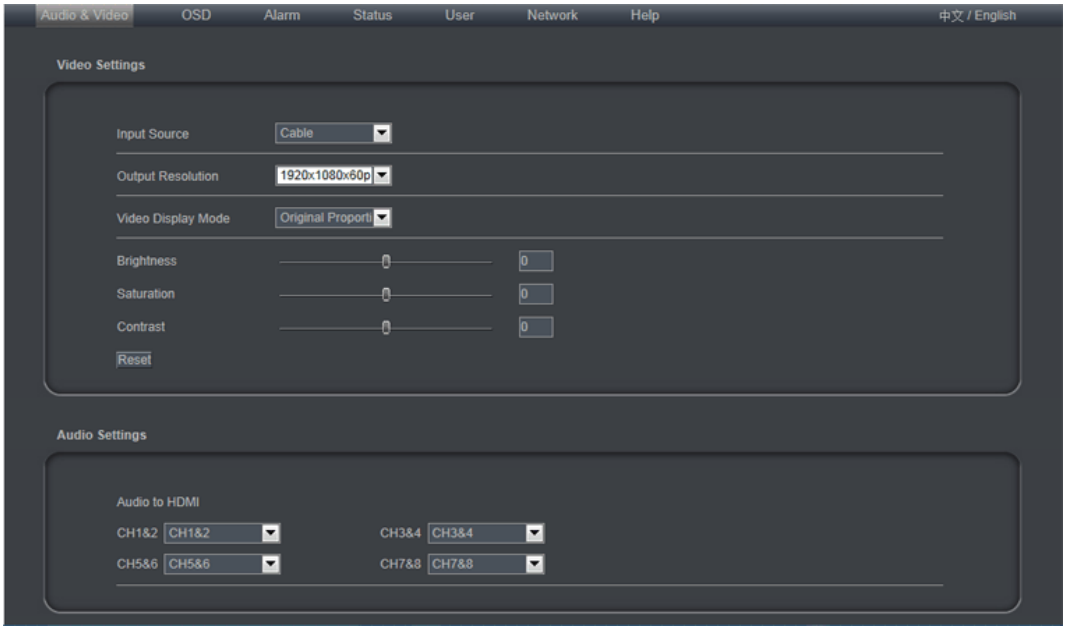
7.1.2 Function overview

There are many labels at the top of the web page: Audio & Video, OSD, Alarm, Status, User, Network, and Help. Different functions can be achieved under different labels.

Menu	Description
Audio & Video:	Configuration of input source, output resolution, display mode, color parameters, and HDMI embedded audio.
OSD:	Configuration of UMD display, Audio meters, AFD information display, Safe Marker, Waveform, and Layout management.
Alarm:	The system supplies detection of audio, mute, frame frozen, black, signal loss. Each alarm threshold can set to meet your needs.
Status:	Show the current status of video and audio.
Network:	Configuration of IP address and parameters for SNMP management, and upgrade the firmware.
Help:	Show the versions of each firmware here.

7.2 Audio & Video

Open the menu OSD by clicking the button.



Settings of the Audio and Video inputs.

7.2.1 Input Source

You can choose input source between CABLE and FIBER. So far, only the type of BNC cable is selectable.

7.2.2 Output Resolution

The DVI/HDMI output interface at the SDI processor provides EDID detection from the monitor unit. And the resolutions from EDID are highlighted in the dropdown list.

The output resolution of DVI/HDMI signal is up to 1920x1080x60p.

The output resolution can be configured as below.

1024x768x60p, 1280x720x50p/60p 1280x768x60p, 1280x800x60p 1280x1024x60p, 1360x768x60p 1400x1050x60p, 1600x900x60p 1680x1050x60p, 1920x1080x50i/60i 1920x1080x50p/60p, AUTO HDMI

(AUTO HDMI: auto-match the output resolution based on EDID detection of monitors.)

7.2.3 Video Display Mode

There are two types of video display:

Full channel: Full channel means the video image will cover the entire window and ignore the aspect ratio of video signal.

Original Ratio: Original Ratio means the video image always keeps the aspect ratio of video signal. So for SD input signal, the aspect ratio of video image is 4:3 and for HD input signal, it is 16:9.

7.2.4 Color parameters

Brightness: to set the brightness of picture. The range is from -512 to 511.

Saturation: to set the color of picture. The range is from 0 to 511.

Contrast: to adjust the clarity of picture. The range is from 0 to 511.

Put the mouse on the cursor and drag it to the assigned position; or you can fill in the certain value ranging from 0 to 255, and then press ENTER at the keyboard to confirm.

Reset button: to restore the factory default settings. The default value of brightness, saturation and contrast is zero.

7.2.5 Audio to HDMI

Select audio channels from the SDI to embed into HDMI signal. It supports eight audio channels for HDMI signal.

The drop-down list is shown as following:

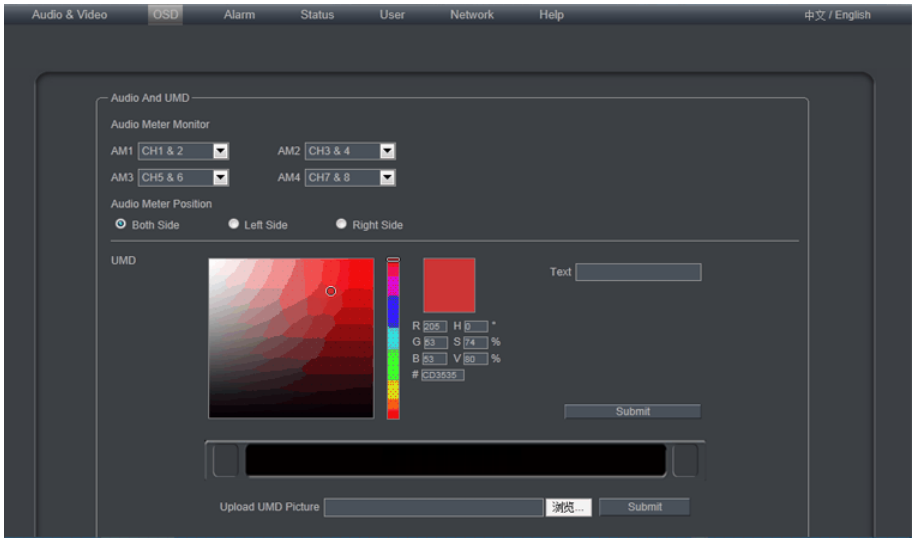
Off/ CH1&2/ CH3&4/ CH5&6/ CH7&8

„Off" option means no audio signal is embedded into the selected channels of HDMI signal.

Note: *This feature is not valid for DVI connections.*

7.3 OSD parameters

Open the menu OSD by clicking the button.



Here you can adjust various parameters for On-screen Display, such as UMD, Audio meters and so on.

7.3.1 Audio Meter Display

Audio meter monitoring

System provides four groups of audio meters to monitoring up to eight audio channels from 3G/HD/SD-SDI signal. Each group can show two audio channels and be configured individually.

The drop-down list is shown as following:

Off/ CH1&2/ CH3&4/ CH5&6/ CH7&8

„Off" option means the selected audio meters are turned off and not displayed on screen.

The position of audio meters

Both Sides: AM1 and AM2 are located on the left side of screen, while AM3 and AM4 are located on the right side of screen. If there are only AM1 and AM2 (or AM3 and AM4) displayed on the screen, so AM1 (AM3) is on the left side and AM2 (AM4) on the right side.

Left Side: AM1, AM2, AM3, and AM4 are all located on the left side of screen.

Right Side: AM1, AAM2, AAM3 and AM4 are all located on the right side of screen.

7.3.2 UMD

Upload UMD Text:

Type the characters in blank bar, change color of characters, and preview the UMD effect real time. Click "Submit" after all parameters are settled and all characters will be displayed in UMD.

Clear UMD Text:

Delete all characters or enter a "space", and then click "Submit", the character in UMD area will be cleared.

Upload UMD picture:

UMD picture can be changed to user-defined one freely through this function. The picture that you need to upload must be 32bits TGA format with Alpha channel. The size of picture is 720x60 pixels

Check/ uncheck UMD:

Check the box “UMD”. It will be shown within the channel, otherwise, not.

Attach UMD and Audio meters to edge:

Check the box, UMD bar and audio meters are attached to the edge of screen which makes the video image be shown completely. If not, UMD bar and audio meters are overlaid on the image.

Transparency of Audio meters and UMD:

In this area, users can modify the transparency of audio meters and UMD. Put the mouse on the cursor and drag it to the assigned position; or you can fill in the certain value ranging from 0 to 100, and then press “Enter” on keyboard. “0” stands for full transparency and “100” stands for opacity.

7.3.3 Tally Display

This function is reserved so far.

7.3.4 AFD Display

AFD Display:

Check the box and AFD information will be overlaid on the top of the screen, otherwise, not. AFD information is shown in the form of picture, according to the AFD code inside of input signal.

7.3.5 Safe Marker

The SDI processor allows to insert Safe Markers.

Safe Area Mode:

The picture of SD-SDI signal is marked with 16:9 safe area markers, and the picture of HD-SDI signal is marked with 4:3 safe area markers.

Mode	Description
None:	No safe marker on the screen
Mask & Line:	Apply both mode
Mask:	block the image with Mask
Line:	Marker showed with lines

Transparency of Safe Area:

Adjust transparency value of Mask. The image can be blocked more or less by this adjustment. Put the mouse on the cursor and drag it to the assigned position; or you can fill in the certain value ranging from 0 to 100, and then press “Enter” on keyboard. “0” stands for full transparency and “100” stands for opacity.

7.3.6 Input Format Display

The format of the input signal can be displayed at the upper left. Check the box, and input resolution/format will be overlaid on the top of the screen, otherwise, not.

7.3.7 Waveform Display

Choose Waveform Mode

The system supports display of real-time waveform and vector overlay. There are three options selectable in a drop-down list.

They are “None”, “Y+PbPr+Vector”, and “Y+Audio Waveform/Phase”.

Y+PbPr+Vector:

This mode displays three inserts, one each for luminance waveform, PbPr waveform and PbPr vector, inserted at the right hand side.

Y+Audio Waveform/Phase:

This mode displays three inserts, one each for luminance waveform, Audio waveform and vector of two channels, inserted at the right hand side.

None:

No waveform on the screen.

Select audio channels for Audio Measure

In the mode of "Y+Audio Waveform/Phase", Audio Waveform and Phase are based on the audio channels you selected from SDI signal.

The drop-down list is shown as following:

Off/ CH1&2/ CH3&4/ CH5&6/ CH7&8

Adjust transparency of Waveform Background

Adjust transparency value of Waveform Background. The image can be blocked more or less by this adjustment.

Put the mouse on the cursor and drag it to the assigned position; or you can fill in the certain value ranging from 0 to 100, and then press "Enter" on keyboard. "0" stands for full transparency and "255" stands for opacity.

Disable OSD (Full screen)

Check the box, all on-screen-display elements disappear, so the signal image is displaying in the full screen mode.

Uncheck the box, the checked elements appear on the screen. Meanwhile, the status of each on-screen-display element can be set individually.

7.3.8 OSD Layout management

All configured parameters can be saved as a template. System provides up to four templates for quick application of different occasions.

Click one of four buttons, for example, click "Template 1". A message box will appear.

Enter the name of template in the blank area at the top of message box, and click "Save" button at the bottom. So the name of the button is changed to the one you edited, not "Template 1" any more.

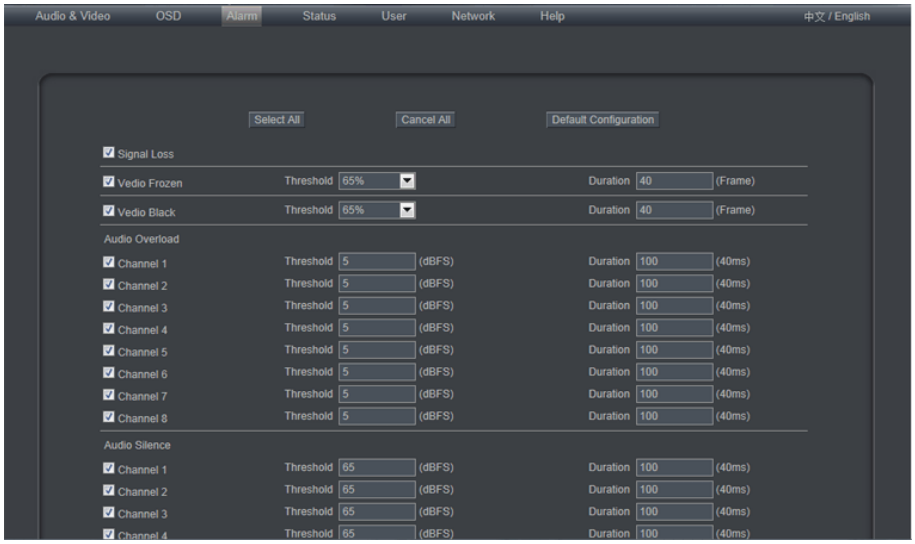
Click the template which is saved already, and a message box appears to show the status of its each parameter. You can apply the template, or delete the template. After you change its parameters, even its name, press "Save" button to submit the new data.

Apply: Click this button to apply the relevant parameters.

Delete: Click this button to delete the relevant parameters.

7.4 Alarm Settings

Open the menu OSD by clicking the button. An individual setup for alarms can be done in this menu.



For easy operation three buttons with default functions:

Select All: Check all the boxes for detection settings of selected channels

Cancel: Cancel all the checks for detection settings of selected channels

Default: Restore Factory Setting

Setting individual values for THRESHOLD and DURATION allows a perfect control of your incoming SDI signal.

The video and audio signal can report signal status and validity, with detection of: Video lose, Video black, Video frozen, Audio overload and Audio in silence

Different icons will appear regarding to the detection.

7.4.1 Video Detection

Setting individual values for THRESHOLD and DURATION allows a perfect control of your incoming SDI signal.

Loss of Signal

It prompts an alarm picture as soon as signal is lost. This detection takes effect only if the box is checked.

Video Frozen (Still Frame)

It will prompt an alarm picture as soon as the regular pixels ratio of the image is lower the threshold you have settled. This detection will take effect only if the box is checked. The threshold and duration of detection can be configured. The threshold means the frozen pixel percentage in one frame.

Video Black

It will prompt an alarm picture as soon as video level is lower the threshold. This detection will take effect only if the box is checked. The duration of detection can be configured.

7.4.2 Audio Detection

Measure unit of digital audio is dBFS (dB Full Scale). 0 dBFS is the maximum audio level, corresponding to +24 dBu of analog audio.

Setting individual values for THRESHOLD and DURATION allows a perfect control of your

incoming SDI signal.

Audio Overload

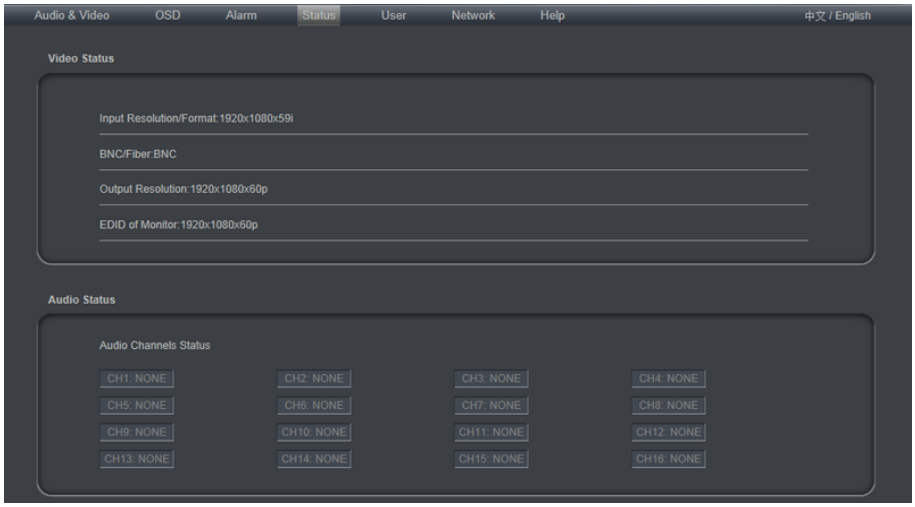
It will prompt an alarm as soon as the audio level overloads the threshold you have set. It provides 8 audio channels detection. And there is a box in front of each audio channel. This detection will take effect only the box is checked. The threshold and duration of detection can be configured for detection of each audio channel. The threshold means a maximum audio level. When actual volume is above this threshold, the system will prompt alarm of audio overload.

Audio in Silence

It will prompt an alarm picture as soon as the audio level lowers the threshold you set. It provides 8 audio channels detection. And there is a box in front of each audio channel. This detection takes effect only if the box is checked. The threshold and duration of detection can be configured for detection of each audio channel. The threshold means a minimum audio level. When actual volume is below this threshold, the system will prompt alarm of audio in silence.

7.5 Status of Video and Audio

Open the menu OSD by clicking the button.



7.5.1 Video status

Show input format and input type of signal source, current output resolution and EDID detection of monitor.

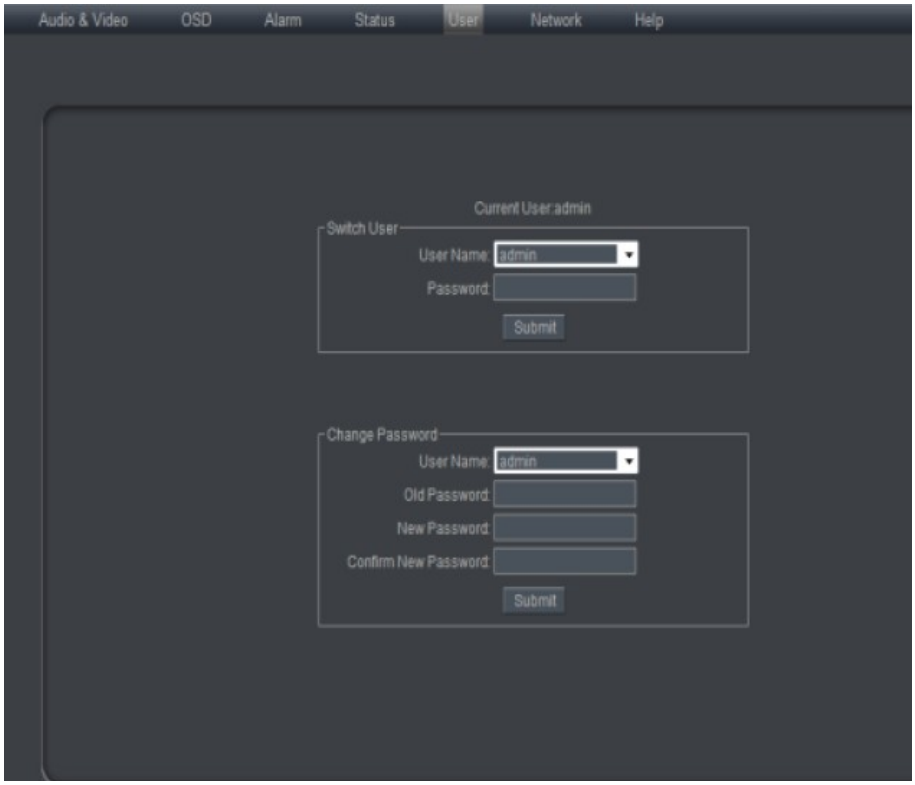
7.5.2 Audio status

System supports status auto-detection of each audio channel of input source. If audio value of one channel is above -70dBfs, the status of the audio channel is existed marked as “Yes”. If audio value of one channel is below -70dBfs, the status of the audio channel is mute marked as “None”.

So far, audio G1 and G2 of input source can be detected, and G3 and G4 are not.

7.6 User Configuration

Open the menu OSD by clicking the button.



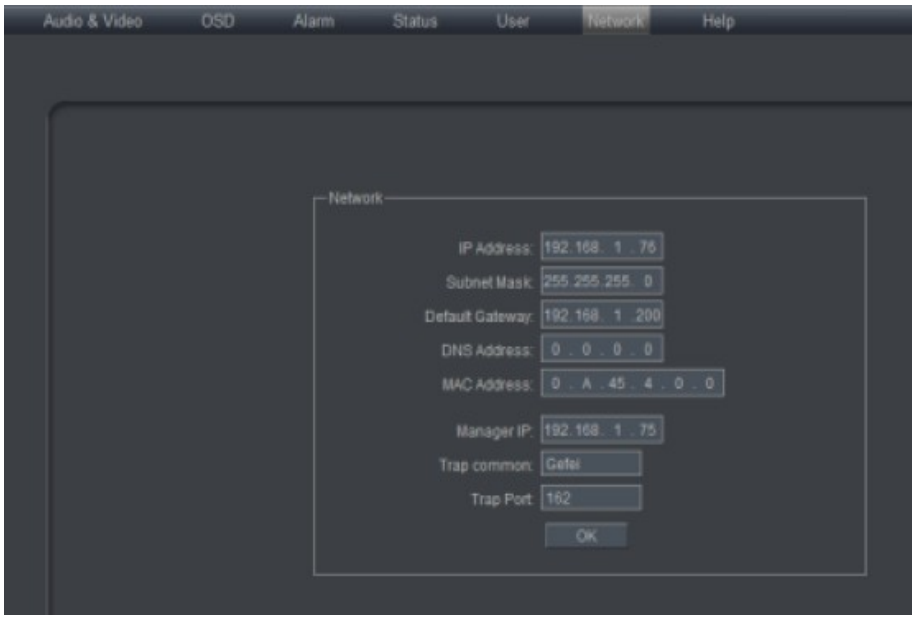
The software provides password-protected function. Default user name is admin, and default password is 000000 (Six zeros).

Users can modify the password; maximum password length is 12 bits. When you modify the password successfully, information will prompt as "The password is altered successfully. It will take effect when you login next time."

7.7 Network Configuration

7.7.1 Change IP address

Open the menu OSD by clicking the button.



User can modify the IP address.

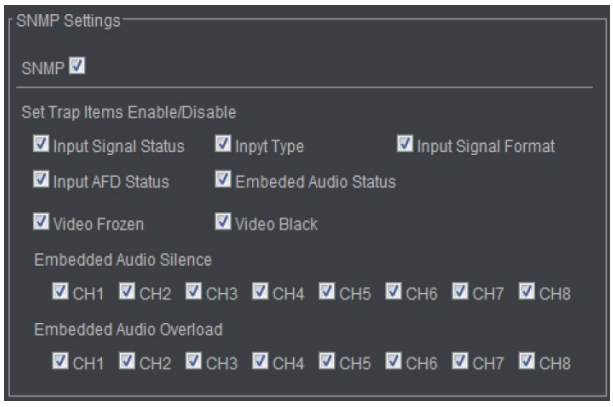
If modified successfully, the system appears a message box telling the operation successful. Then restart the device, enter the new IP address in IE address and the web software will be opened.

7.7.2 Change manager IP for SNMP Management

Configure the "Manager IP" to be the local IP address of SNMP Server. The Server and the SDI processor should be in the same network segment. And Trap common and Trap port are for SNMP. Do not change them.

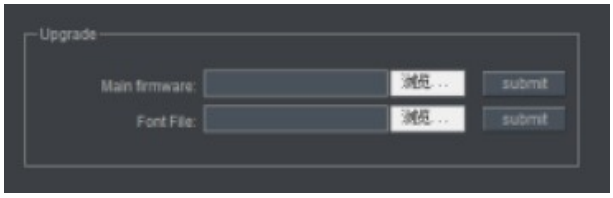
7.7.3 Items for SNMP

Check/Uncheck the box of each item to enable/disable the SNMP trap. If check the box of "SNMP", each item below can be check or uncheck individually, that is, each trap can be enabled or disabled individually. Otherwise, if uncheck the box of "SNMP", the system will disable all trap items for SNMP management at the same time.



7.7.4 Upgrade firmware of system

User can also upgrade system under this label. Before the upgrade, the anti-virus software and firewall have to be closed to make sure that the upgrade data is transmitted to SDI processor without rejection. Windows 2003, Windows XP, Windows Vista and Windows 7 system are strongly recommended to upgrade the system with Internet Explorer.exe.



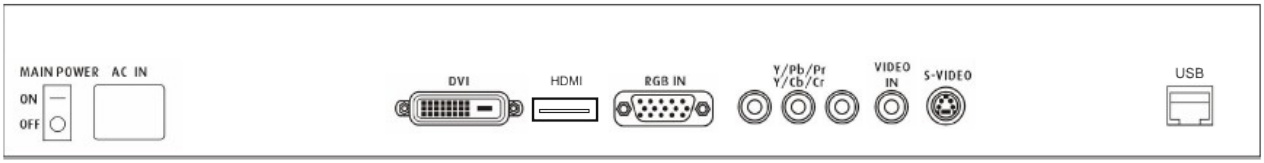
There are two items for upgrading, main DSP and font, if there is new version released, we will upgrade file to the customs. Power and network cannot be cut off during upgrading. When system is upgraded successfully, please turn off the power and restart the device again. It takes about 5 minutes to upgrade main DSP or font.

8 I/O Panel and Connections

8.1 Input connections

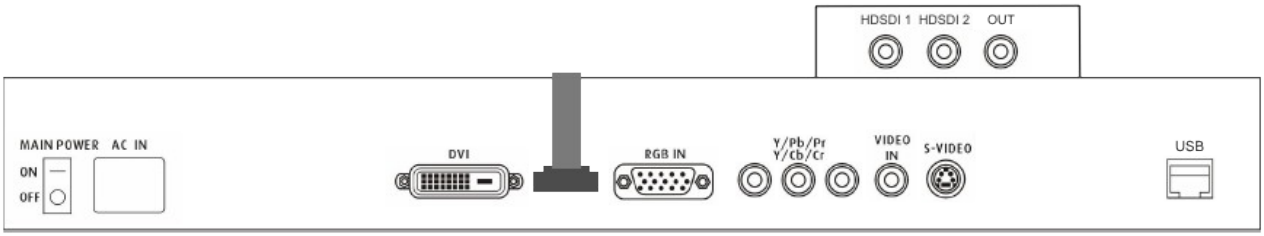
8.1.1 Layout of the rear I/O panel

At the rear side all inputs are located.



8.1.2 Layout of the rear I/O panel with HDSDI

At the rear side all inputs are located.



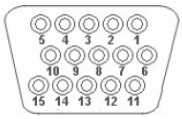
Optionally HDSDI inputs are located just over the video inputs.

To use the HDSDI inputs don't disconnect the DVI connector.

8.2 Connector Pin Assignment

8.2.1 D-Sub-15p VGA connector

The pin assignment of the VGA I/O follows the standard.

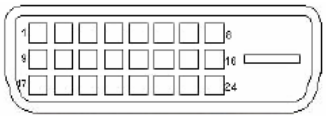


The table below list the pin out.

Pin No.	Function	Pin No.	Function
1	Red video input	**9**	NC
2	Green video input	**10**	Ground
3	Blue video input	**11**	NC
4	NC	**12**	SDA
5	Ground	**13**	Horizontal sync
6	Red video ground	**14**	Vertical sync
7	Green video ground	**15**	SCL
8	Blue video ground		

8.2.2 DVI-D 24p connector

The pin assignment of the DVI I/O follows the standard.



The table below list the pin out.

Pin No.	Function	Pin No.	Function
1	TMDS data 2-	**13**	NC
2	TDMS data 2+	**14**	+5 V DC
3	TDMS data 2 ground	**15**	Ground
4	NC	**16**	Hot plug detect
5	NC	**17**	TMDS data 0-
6	Clock line SCL	**18**	TDMS data 0+
7	Data line SDA	**19**	TDMS data 0 ground
8	NC	**20**	NC
9	TMDS data 1-	**21**	NC
10	TDMS data 1+	**22**	TMDS clock ground
11	TDMS data 1 ground	**23**	TMDS clock +
12	NC	**24**	TMDS clock -

8.2.3 BNC 2p HDSDI connector

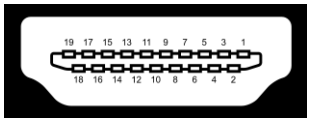
The pin assignment of the HDSDI I/O follows the standard.

The table below list the pin out.

Pin No.	Function	Pin No.	Function
outer	Ground	**inner**	HDSDI 4:2:2 1.5 Gbit/s 0.8 Vpp 75 Ohms

8.2.4 HDMI 18p HDMI connector

The pin assignment of the HDSDI I/O follows the standard.



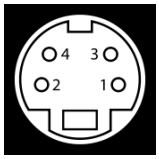
The table below list the pin out.

Pin No.	Function	Pin No.	Function
1	TDMS data 2+	**11**	TMDS clock shield
2	TMDS data 2 shield	**12**	TMDS clock -
3	TMDS data 2-	**13**	CEC
4	TDMS data 1+	**14**	NC
5	TMDS data 1 shield	**15**	DDC

Pin No.	Function	Pin No.	Function
6	TMDS data 1-	**16**	DDC
7	TDMS data 0+	**17**	Ground
8	TMDS data 0 shield	**18**	+5 V DC
9	TMDS data 0-	**19**	Hot plug detect
10	TMDS clock+	**20**	shield

8.2.5 Mini-DIN 4p S-Video connector

The pin assignment of the S-Video I/O follows the standard.

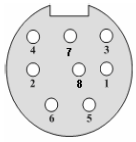


The table below list the pin out.

Pin No.	Function	Pin No.	Function
1	GND	**2**	Y (luminance) 1 Vpp 75 Ohms
2	GND	**3**	C (chrominance) 0,286 Vpp 75 Ohms

8.2.6 Mini-DIN 8p Component connector

The pin assignment of the Component I/O follows the standard.



The table below list the pin out.

Pin No.	Function	Pin No.	Function
1	Ground	**5**	Ground
2	CB (Blue chroma)	**6**	CR (Red chroma)
3	Ground	**7**	NC
4	Y (luminance)	**8**	NC

8.2.7 RCA 2p Composite connector

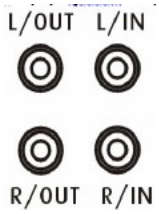
The pin assignment of the Composite I/O follows the standard.

The table below list the pin out.

Pin No.	Function	Pin No.	Function
outer	Ground	**inner**	CCVS 1 Vpp 75 Ohms

8.2.8 RCA 2p Audio connector

The pin assignment of the Audio I/O follows the standard.



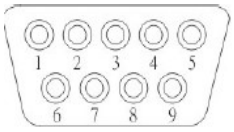
The table below list the pin out.

Pin No.	Function	Pin No.	Function
L / out	Audio left output	**L / in**	Audio left input
R / out	Audio right output	**R / in**	Audio right input

!!! This inputs are not available at VT series monitors !!!

8.2.9 Dsub 9p Remote connector

The pin assignment of the Remote I/O follows the standard.



The table below list the pin out.

Pin No.	Function	Pin No.	Function
1	NC	**6**	NC
2	Receive data (RD)	**7**	NC
3	Transmit data (TD)	**8**	NC
4	NC	**9**	NC
5	Ground		

!!! This inputs are not available at VT series monitors !!!

8.2.10 USB connector

The pin assignment of the USB I/O follows the standard.

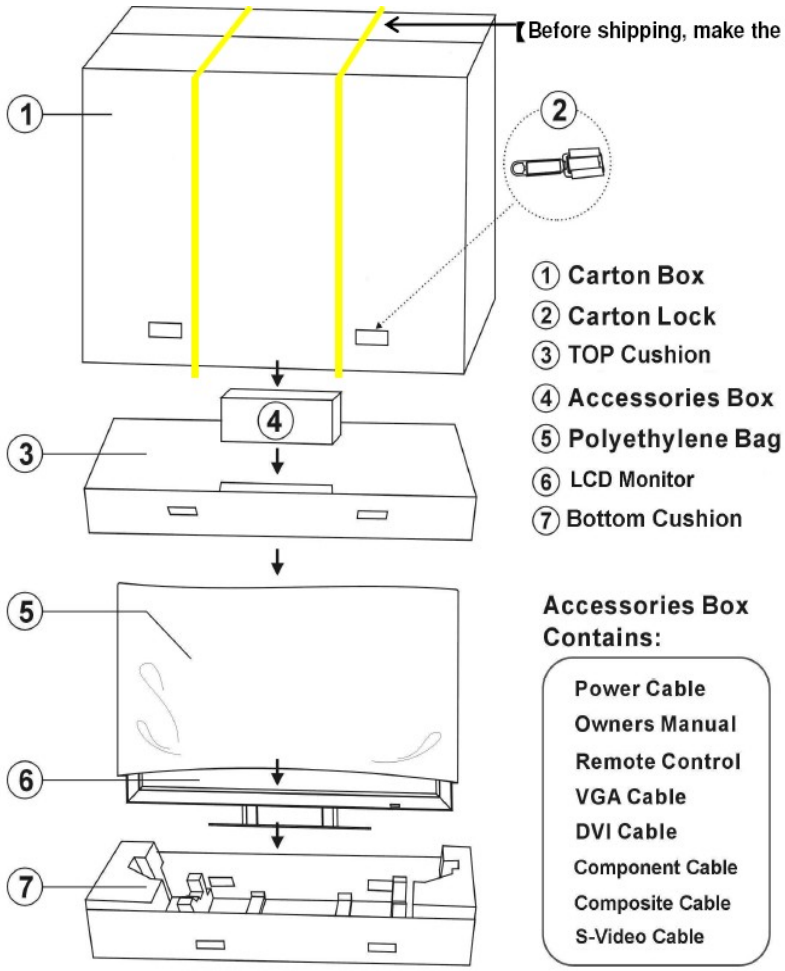
Using the USB connections the built-in USB hub can be used to connect external USB powered devices to the monitor.

!!! The USB port is not assigned to control or operate the VT series monitors !!!

9 Packing

9.1 Shipping Box

The VIDRE LCD monitor is shipped within a special paper box. To open and unpack or re-pack the monitor follow the instructions below.

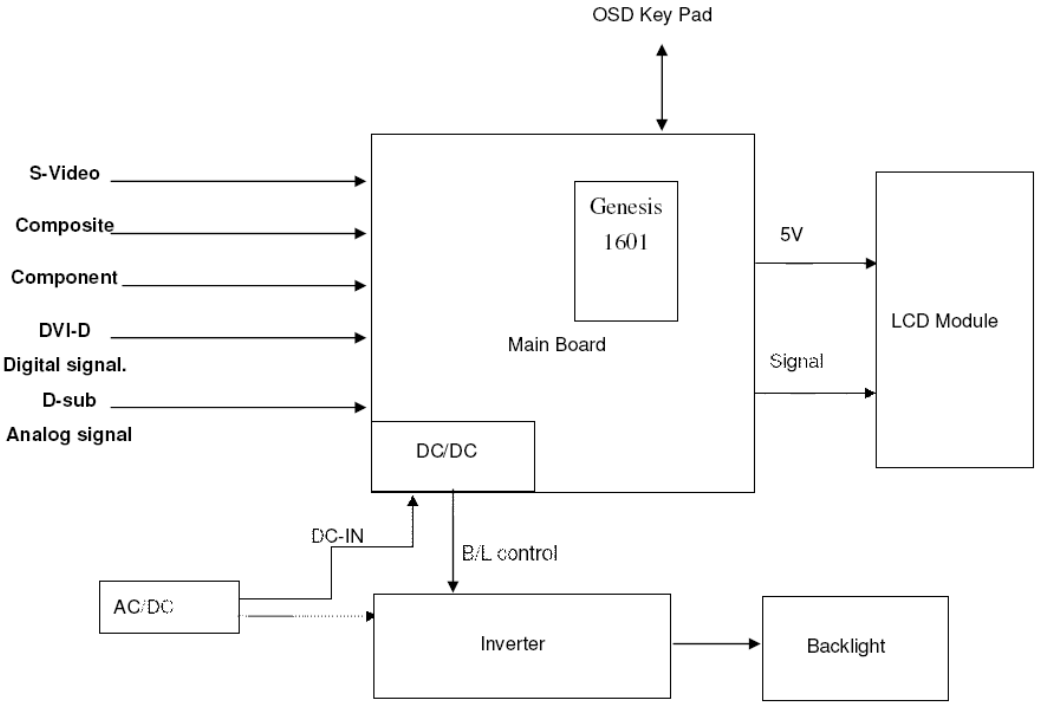


Keep the shipping box for any future shipment.

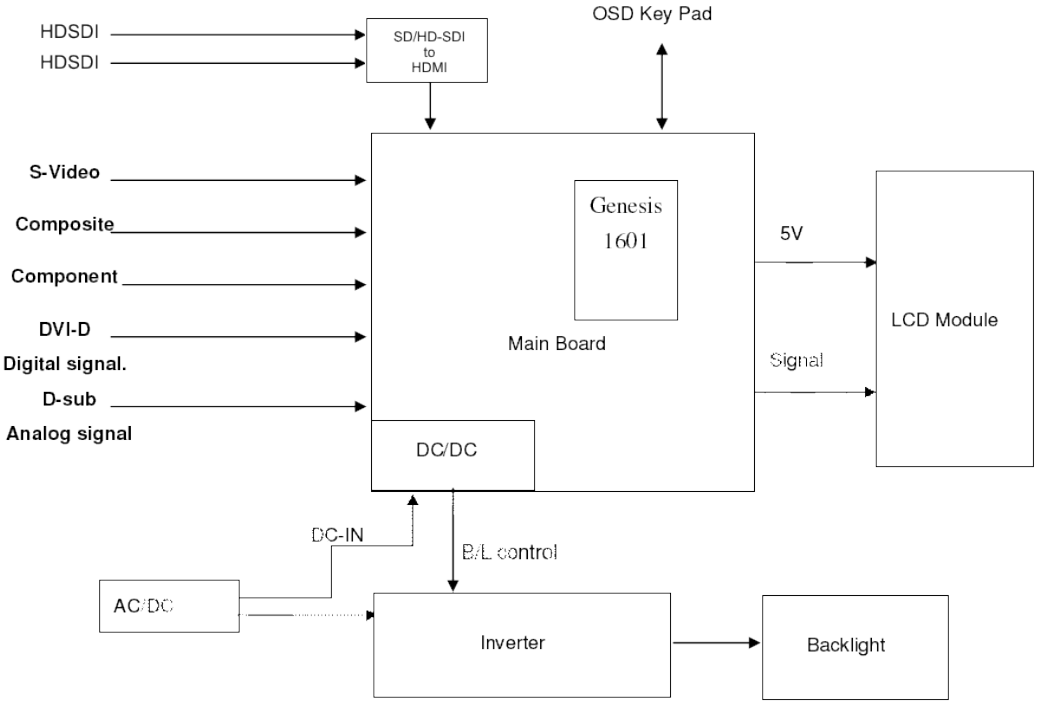
10 Block-diagram

10.1 Electrical Diagram

VIDRE LCD monitor block-diagram:



VIDRE LCD monitor block-diagram for monitors with HDSDI:



11 Safety

11.1 Safety standards and Compliance

This product was tested to the following standards and found compliance.

11.1.1 Standards

Approval standards for the VIDRE LCD monitors are

FCC:	CFR47, Part 15 / CISPR 22 3rd edition 1997 class A
	ANSI C63.4 2003
	Canadian ICES-003
CE:	EN 55022 1998+A1, 2000+A2, 2003 Class A
	EN 55024 1998+A1, 2001+A2, 2003
IEC:	61000-4 series
UL:	UL 60950-1 2003 first edition
CSA:	C22.2 No. 60950-1-03 1st edition 2003
TÜV:	EN 60950-1/A11 2004

11.1.2 Insulation Resistance

The resistance of the insulation between the power terminal and the earth ground contact is more than 10 M**Ù** while withstanding a voltage of 500 V DC.

The power terminal and the earth ground contact is more than 4 M**Ù** while withstanding a voltage of 500 V DC.

11.1.3 Insulation Dielectric Strength

The evaluation conforms to safety standard of shipment area.

There is no breakdown of the insulators or short circuits when applying an alternating potential of 1.5 kV AC and 1.6 kV AC for a duration of 20 m and 3 seconds respectively between the metallic chassis and the input power supply active and neutral terminals connected together.

11.1.4 Environment

The unit is tested to operate in an environment with temperatures of 0°C up to +50°C at a humidity range of 20 - 80 % in a altitude not more than 3.000 m.

Storage characteristics are -20°C up to +60°C at 20 - 85% humidity in a altitude not more than 3.000 m.

12 Frequently asked Questions

12.1 Special Notice

- In order to avoid network traffic congestion, please do not submit parameters before the first modification is applied.
- In order to avoid hardware loose contact caused by continuous operations on the front panel, please do your second operation after you have got the first operation result.
- Generally, it will spend about three seconds to get the results after you submit. The time is related with the monitor type. If the time is too long (over 7 seconds), maybe there is something abnormal with the hardware's working status (overheating for example), please wait patiently.
- Do not disconnect or connect the DVI connector without power-down.
- When there is no display output from the device on the monitor, maybe the output resolution don't match the monitor. Please try to change the output resolution though web server.
- Windows 2003, Windows XP and Windows Vista are strongly recommended with Internet Explorer.exe.
- Build-in Web server to control the SDI processor easily by your computer via Ethernet. Please make sure IP address of SDI processor is in the same network segment as your computer. And the IP and Mac address of SDI processor are unique value in Ethernet.
- User can also upgrade system under the label "Network". Before the upgrade, the anti-virus software and firewall have to be closed to make sure that the upgrade data is transmitted to SDI processor system without rejection. Power and network cannot be cut off during upgrading.

12.2 Troubleshooting

- ***The image is blurred:***

Read the **How to adjust the screen resolution** section, and then select the correct resolution, refresh rate and make adjustments based on these instructions.

- ***How do you use a VGA extension cable?***

Remove the extension cable for the test. Is the image now in focus? If not, optimize the image by working through the instructions in the **How to adjust the screen refresh rate** section It is normal for blurring to occur due to conduction losses in extension cables. You can minimize these losses by using an extension cable with better conduction quality or with a built-in booster.

- ***Does the blurring only occur at resolutions lower than the native (maximum) resolution?***

Read the **How to adjust the screen resolution** section. Select the native resolution.

- ***Pixel errors can be seen:***

One of several pixels is permanently black, one or more pixels are permanently white, one or more pixels are permanently red, green, blue or another color.

Clean the LCD screen.

Cycle power on-off.

These are pixels that are permanently on or off and is a natural defect that occurs in LCD technology.

- ***The image has a faulty coloration:***

It has a yellow, blue or pink appearance.

Select MENU > PICTURE > Color > Reset Color, and then choose "Yes" in the "Caution"

message box to reset the color settings to the factory defaults.

If the image is still not correct and the OSD also has faulty coloration, this means one of the three primary colors is missing in the signal input. Now check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.

- ***No image can be seen:***

Is the prompt on the display illuminated in green?

If the LED is illuminated in green and there is a message "Out of Range" on the screen, this means you are using a display mode that this monitor does not support, please change the setting to one of the supported mode. Please read "**Supported PC Timings**"" section. Recommended mode is 1920 x 1200 @ 60Hz.

- ***Faint shadow from the static image displayed is visible on the screen:***

Activate the power management function to let your computer and monitor go into a low power "sleep" mode when not actively in use.

Use a screensaver to prevent the occurrence of image retention.

- ***Is the prompt on the display illuminated in orange?***

If the LED is illuminated in orange, the power management mode is active. Press any key on the computer keyboard or move the mouse. If that does not help, check the signal cable connectors. If any pin is bent or broken off, please contact your dealer to get necessary support.

- ***Is the prompt on the display not illuminated at all?***

Check the power supply mains socket, the external power supply and the mains switch.

- ***The image is distorted, flashes or flickers:***

Read the **How to adjust the screen resolution** section and then select the correct resolution, refresh rate and make adjustments based on these instructions.

You are running the monitor at its native resolution, but the image is still distorted.

Images from different input sources may appear distorted or stretched on the monitor running at its native resolution. To have the optimal display performance of each type of input sources, you can use the "Display Mode" function to set a proper aspect ratio for the input sources. See **Display Modes** for details.

- ***The image is displaced in one direction:***

Read the **How to adjust the screen resolution** section and then select the correct resolution, refresh rate and make adjustments based on these instructions.

- ***The OSD controls are inaccessible:***

To unlock the OSD controls when the OSD is preset to be locked, press and hold the "ENTER" key for 15 seconds to enter the "OSD Lock" option and make changes.

Alternatively, you may use the [UP]or [DOWN] keys to select "OFF" in the "OSD Lock" submenu from the "OSD Settings" menu (under SYSTEM), and all OSD controls will be accessible.

12.2.1 Need more help?

If your problems remain after checking this manual, please contact your place of purchase or e-mail us at: support@vidre.de